

COMMISSIONER OF PATENTS AND TRADEMARKS
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FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
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Sheet 1 of 4

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In the Application of PIZZA et al.

Serial No.: 09/297,171

Art Unit: 1654

Filed: April 26, 1999

Examiner: M. Borin

TECH CENTER 1600/2900

Title: IMMUNOGENIC DETOXIFIED MUTANT *E. COLI* LT-A TOXIN

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-2						

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	NO
AM	AB-2	wo 92/22326	December 1992	PCT				
	AC-2	WO 93/13202	July 08, 1993	PCT				
	AD-2	WO 95/17211	June 29, 1995	PCT				
	AE-2	WO 96/06627	March 07, 1996	PCT				
	AF-2	WO 97/02348	January 23, 1997	PCT				
MM	AG-2	O 145 486	December 12, 1984	EPO				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
MM	AH-2	Bowen et al., "Cholera Toxin Acts as a Potent Adjuvant for the Induction of Cytotoxic T-Lymphocyte Responses with Non-Replicating Antigens," <i>Immunology</i> 81:338-342 (1994)

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MM	AI-2	Burnette et al., "Site-Specific Mutagenesis of the Catalytic Subunit of Cholera Toxin: Substituting Lysine for Arginine 7 Causes Loss of Activity," <i>Inf. & Immunity</i> <u>59</u> (11):4266-4270 (1991)
	AJ-2	Clements et al., "Adjuvant Activity of <i>Escherichia coli</i> Heat-Labile Enterotoxin and Effect on the Induction of Oral Tolerance in Mice to Unrelated Protein Antigens," <i>Vaccine</i> <u>6</u> :269-277 (1988)
	AK-2	Di Tommaso et al., "Induction of Antigen-Specific Antibodies in Vaginal Secretions by Using a Nontoxic Mutant of Heat-Labile Enterotoxin as a Mucosal Adjuvant," <i>Inf. & Immunity</i> <u>64</u> (3):974-979 (1996)
	AL-2	Domenighini et al., "MicroCorrespondence," <i>Mol. Microbiology</i> <u>15</u> (6):1165-1167 (1995)
	AM-2	Douce et al., "Mutants of <i>Escherichia Coli</i> Heat-Labile Toxin Lacking ADP-Ribosyltransferase Activity Act as Nontoxic, Mucosal Adjuvants," <i>Proc. Natl. Acad. Sci.</i> <u>92</u> :1644-1648 (1995)
	AN-2	Douce et al., "Intranasal Immunogenicity and Adjuvanticity of Site-Directed Mutant Derivatives of Cholera Toxin," <i>Inf. & Immunity</i> <u>65</u> (7):2821-2828 (1997)
	AO-2	Fontana et al., "Construction of Nontoxic Derivatives of Cholera Toxin and Characterization of Immunological Response Against the A Subunit," <i>Inf. & Immunity</i> <u>63</u> (6):2356-2360 (1995)
	AP-2	Harford et al., "Inactivation of the <i>Escherichia Coli</i> Heat-Labile Enterotoxin by Invitro Mutagenesis," <i>Eur. J. Biochem</i> <u>183</u> :311-316 (1989)
	AQ-2	Holmgren et al., "An Oral B Subunit: Whole Cell Vaccine Against Cholera," <i>Vaccine</i> <u>10</u> (3):911-914 (1992)
MM	AR-2	Holmgren et al., "Cholera Toxin and Cholera B Subunit as Oral-Mucosal Adjuvant and Antigen Vector Systems," <i>Vaccine</i> <u>11</u> (13):1179-1183 (1993)

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<i>MB</i>	AS-2	Jackson et al., "Optimizing Oral Vaccines: Induction of Systemic and Mucosal B-Cell and Antibody Responses to Tetanus Toxoid by Use of Cholera Toxin as an Adjuvant," <i>Inf. & Immunity</i> <u>61</u> (10):4272-4279 (1993)
	AT-2	Lycke et al., "The Adjuvant Effect of Vibrio Cholera and Escherichia Coli Heat-Labile Enterotoxins is Linked to their ADP-Ribosyltransferase," <i>Eur. J. Immunol.</i> <u>22</u> :2277-2281 (1992)
	AU-2	Magagnoli et al., "Mutations in the A Subunit Affect Yield, Stability, and Protease Sensitivity of Nontoxic Derivatives of Heat-Labile Enterotoxin," <i>Inf. & Immunity</i> <u>64</u> (12):5434-5438 (1996)
	AV-2	Nashar et al., "Potent Immunogenicity of the B Subunits of Escherichia Coli Heat-Labile Enterotoxin: Receptor Binding is Essential and Induces Differential Modulation of Lymphocyte Subsets," <i>Proc. Natl. Acad. Sci.</i> <u>93</u> :226-230 (1996)
	AW-2	Partidos et al., "The Adjuvant Effect of a Non-Toxic Mutant of Heat-Labile Enterotoxin of Escherichia Coli for the Induction of Measles Virus-Specific CTL Responses After Intranasal Co-Immunization with a Synthetic Peptide," <i>Immunology</i> <u>89</u> :483-487 (1996)
	AX-2	Pizza et al., "Probing the Structure-Activity Relationship of Escherichia Coli LT-A by Site-Directed Mutagenesis," <i>Molecular Microbiology</i> <u>14</u> (1):51-60 (1994)
	AY-2	Rollwagen et al., "Killed Campylobacter Elicits Immune Response and Protection When Administered With an Oral Adjuvant," <i>Vaccine</i> <u>11</u> (13):1316-1320 (1993)
	AZ-2	Snider, Denis P., "The Mucosal Adjuvant Activities of ADP-Ribosylating Bacterial Enterotoxins," <i>Critical Reviews in Immunology</i> <u>15</u> (3&4):317-348 (1995)
<i>MB</i>	BA-2	Tsuji et al., "A Single Amino Acid Substitution in the A Subunit of Escherichia Coli Enterotoxin Results in a Loss of its Toxic Activity," <i>Journal of Biological Chemistry</i> <u>265</u> (36):22520-22525 (1990)

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<i>MB</i>	BB-2	van den Akker et al., "The Arg7Lys Mutant of Heat-Labile Enterotoxin Exhibits Great Flexibility of Active Site Loop 47-56 of the Subunit," <i>Biochemistry</i> <u>34</u> :10996-1104 (1995)
<i>MB</i>	BC-2	Wilson et al., "Adjuvant Action of Cholera Toxin and Pertussis Toxin in the Induction of IgA Antibody Response to Orally Administered Antigen," <i>Vaccine</i> <u>11</u> (2):113-118 (1993)

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